



IBM Software Group

Introduction to the CICS Explorer

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Agenda

- Overview of CICS Explorer
- CICS Explorer Installation directions
- CICS Explorer Configuration Options
- CMCI Backend setup instructions
- Demo of Key Features
- Additional Resources
- Q&A

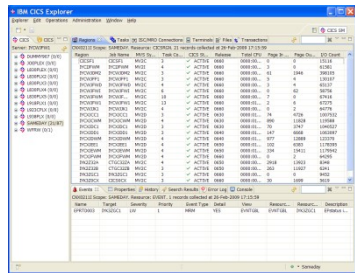


Concept

- Simplified single user interface for CICS & CICSplex SM
 - ▶ Provides subset of existing CPSM Web UI functionality as well as CEMT, CEDA, ...
 - ▶ Aimed at CICS system programmer, operator and application developer
 - ▶ Designed for both new and experienced CICS users
- Integration platform
 - ▶ Enables consistent experience for users of CICS Tools, customer contributions and 3rd party applications
 - ▶ Includes common set of icons, views and server access (including logon configuration) as well as integration framework for shared use cases
 - ▶ Centrally managed and distributed using Eclipse Update Manager or shared network drive
- Extension through Software Development Kit (SDK)
 - ▶ Provides separately packaged plug-ins for any Eclipse-based environment including RDz
 - ▶ API allows 3rd parties to extend or integration existing capability
 - ▶ Layered architecture allows Eclipse-independent components to be used in any environment

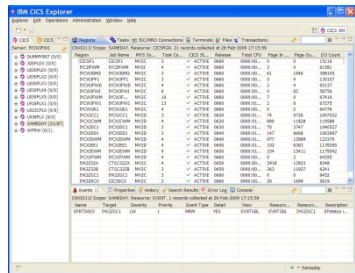
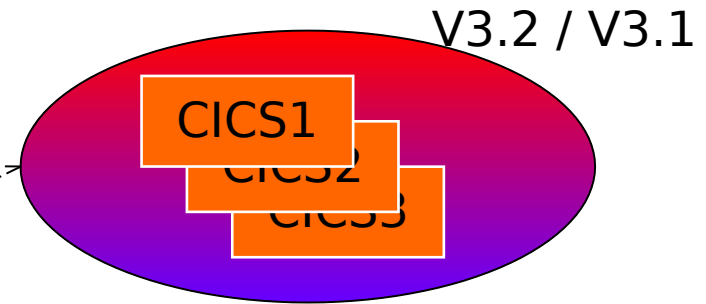


Connection Configurations

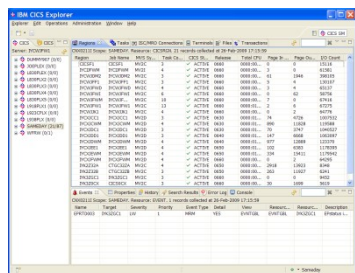
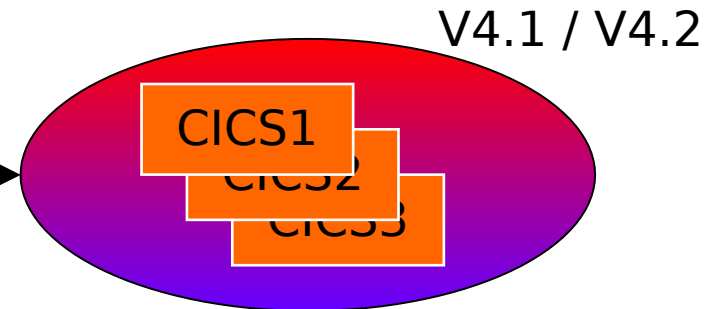


CPSM Data API (read-only)

CPSM Data API (read-only)



CICS SM Client API



CICS SM Client API



Distribution and Maintenance

- **Distribution**
 - ▶ ZIP (100MB) download for Windows & Linux
 - Includes Explorer, Eclipse RCP & JRE (IBM Java 6)
 - Used for new version/releases and initial install
 - <http://www-01.ibm.com/software/http/cics/explorer/>
 - ▶ ZIP update site (10MB)
 - Explorer
 - Used to update initial install
 - Great for systems not Internet-connected and updates can be backed-out
 - Fix Central - <http://www-933.ibm.com/support/fixcentral/>
 - ▶ Update site
 - Explorer
 - Used to update initial install
 - Can be configured to happen automatically
 - <http://download.boulder.ibm.com/ibmdl/pub/software/http/cics/updates/explorer/1.1/latest/>
- **Maintenance**
 - ▶ Each user can have a local installation e.g. C:\Program Files\CICS_Explorer
 - ▶ Multiple users can share a single installation from a read-only network drive
 - ▶ Either installation can be managed using any mechanism above
 - ▶ User settings and customizations are held locally

Service and Update

- Explorer has been delivered at regular intervals to provide new capability, fix bugs and solicit feedback
 - You can enable automatic updates to keep the Explorer update to date.
 - You do not need to wait for a new release of CICS TS to get a new release of the CICS Explorer.
- Each new code drop will supersede all previous and include both new features and bug fixes.

Installing the CICS Explorer

■ Installing on a Local workstation

- ▶ Download the CICS Explorer .zip file (a .tar.gz file on Linux) from the download site to your local workstation.
- ▶ Extract the contents to a new directory on your local workstation. For example, C:\Program Files\Explorer\ on a Windows operating system, or ~/Explorer/ on a Linux operating system
- ▶ When the extract has completed, open the CICS_Explorer directory in your new Explorer directory. Locate thecicsexplorer.exe file (cicsexplorer on Linux) and create a shortcut on the desktop.

■ Installing on a remote network drive

- ▶ Download the CICS Explorer .zip file from the download site to your local workstation.
- ▶ Extract the contents to a new directory on the remote network drive.
 - Requires write access to the network drive
- ▶ When the extract is complete, open the CICS_Explorer directory in the new directory on the remote network drive. Locate thecicsexplorer.exe file and create a shortcut on your local workstation.
- ▶ Right-click the shortcut and click **Properties**. The **Target** field displays the path to the CICS Explorer executable file on the remote network drive. You must distribute the shortcut to all users who will run CICS Explorer. If the path from their workstations to the remote server is different from the one already there, you must change the path in the shortcut.



Configuring the FTP server for CICS Explorer

- CICS Explorer uses the z/OS Communications Server FTP server to gain access to data sets, z/OS hierarchical file systems and JES spool. For CICS Explorer to successfully obtain the spool files, the FTP.DATA configuration file for the Server must specify JESINTERFACELEVEL 2.
- To Check the JESINTERFACELEVEL:
 - ▶ Start an FTP client and run a **quote stat** command.
 - ▶ Check the output to determine the JESINTERFACELEVEL.
 - ▶ Optional: (Optional) Change the FTP.DATA configuration file for the Server to specify JESINTERFACELEVEL 2.

Configuring the CICS Explorer

- After you have installed the CICS Explorer, you will need to:
 - ▶ Define connection credentials
 - ▶ Configure a CICS System Connection
 - ▶ Configure an FTP system connection
 - ▶ (optional) Change the CICS Explorer Workspace location

Defining Connection Credentials

- When CICS Explorer attempts to establish a system connection it must send your credential details, that is your user ID and password or password phrase, to the system for authentication. When you have defined a credential you can use it on systems that share the credential without re-entering the details every time. You must have at least one credential before you can connect to a system.
- Click **window > Preferences** from the workbench menu bar and expand **CICS Explorer**. Click **Credentials**. The credential Preferences view is now displayed.
- Click **New** to add a new credential.
- Complete the fields with your connection details.

Option	Description
Name	The local name used to identify this credential. The name can be anything you like and is used only to help you distinguish between different credentials.
User ID	Your authorized user ID.
Password	Your password or passphrase for the user ID (Must

- You must select the “Save password” check box before you can enter your password
- Click **Apply** to save the credential or **Cancel** to cancel the process and close the Preferences view.

Configuring a CICS System Connection

- You must have first defined at least one credential connection before you can create a CICS System Connection.
- If you are connecting to a CICS TS version 3 system, you must connect to a CICSplex SM WUI server using the "CICSplex SM Data Interface" read-only connection.
- If you are connecting to a CICS version 4 system you can connect either to a CICSplex SM WUI server using the "CICSplex SM Data Interface" read-only connection, or, if you want update capability, you can use the CICS management client interface (CMCI) connection.
- Click **Window > Preferences** from the workbench menu bar, and expand **CICS Explorer** in the Preferences view. Click **Connections**. The Connections Preferences view is displayed.
- Click **New**
- Complete the fields with the details provided by your system administrator.

Option	Description
Type	CICSplex SM Data Interface CICS Management Interface
Name	The local name used to identify this connection.
Host Name	The TCP/IP host name of your CICSplex SM WUI server or your stand-alone CICS region. For a WUI server, this is the value specified in the initialization parameter TCPIPHOSTNAME .
Port Number	The port used to access the server. For a WUI server, this is the value specified in the TCPIPPORT attribute of the TCPIPSERVICE definition created when configuring the CICS management interface.
Credentials	Your credential for the system. Click the menu twistie to see all defined credentials.

- Click **Apply** to save the configuration then click **Connect**.

Configuring an FTP System Connection

- You must have an FTP connection to use the views in the z/OS perspective.
- Click **Window > Preferences** from the workbench menu bar. In the Preferences dialog expand **CICS Explorer** and click **Connections**. The Connections Preferences view is displayed. If it has been pre-configured, you see the connection details displayed. If not, the fields are blank.
- Click **New** and complete the fields with the details provided by your system administrator. The following table provides a description of the fields:

Option	Description
Type	For an FTP connection this is System z - FTP
Name	The local name used to identify this connection.
Host Name	The TCP/IP host name of your FTP server.
Port Number	The port used to access the server. For FTP this is typically port 2
Credentials	Your credential for the system.
Transfer Mode	Choose Active or Passive depending on the FTP used by your organization. The default mode is Passive .
Attempt Secure Connection	Select the check box to attempt to connect using secure FTP. If the attempt is unsuccessful, the connection is reattempted without security.

- Click **Apply** and save the configuration.



Changing your Explorer Workspace

- The CICS Explorer workspace contains connection and configuration information.
- You can change the location where the CICS Explorer saves the user's workspace.
- Right-click the shortcut and click **Properties**. The **Target** field in the Properties dialog displays the path to the CICS Explorer executable file.
- Append the text below to the Target path, ensuring that you leave a space between the existing path and the new text, and retain the quotes:
 - On a Windows operating system, append: -data "*newdirectorypath\workspace*", including the quotation marks, where:
 - *Newdirectorypath* Is the directory path to the location of the new workspace
 - *Workspace* Is the name for the new workspace file.
 - For example: C:\Explorer\CICS_Explorer\cicsexplorer.exe -data "C:\Documents and Settings\Administrator\Desktop\new_workspace"
- Save and close the shortcut.



Setting up the CICS management client interface

- You can set up CMCI differently depending on whether you are connecting to a CICSplex SM environment, or in a stand-alone CICS region (SMSS).
- For a CICSplex SM environment, you must configure a WUI server and set the CMCIPORT WUI server initialization parameter.
- For SMSS, you must install a TCPIPService and URIMAP definitions and alter the CICS Startup JCL



Setting up CMCI with CICSplex SM

- You must first have configured CICSplex SM environment and have a WUI Server.
- When you specify the WUI Server initialization parameters, you must specify a unique value for the CMCIPTORT parameter. This will allocate a TCP/IP port number for CMCI. When configuring your CICS Explorer, you would specify the CMCIPTORT number as the port value.
- Consider setting a nonzero value for DEFAULTWARNCNT WUI server initialization parameter. This will help prevent the retrieval of unnecessary amounts of data and help prevent storage shortages.
- This is all that is needed when connecting to a CICSplex SM environment.

Setting up CMCI in a stand-alone CICS region

- Change the CICS startup JCL
 - ▶ Add the *hlq.CPSM.SEYUAUTH* library to the STEPLIB concatenation.
 - ▶ Add the *hlq.CPSM.SEYULOAD* library to the DFHRPL concatenation.
 - These libraries must be at the same level as the CICS TS libraries
- Sample resource definitions are provided for setting up the CMCI for SMSS connections. These samples are provided in the DFH\$WU group.
 - ▶ You can install these sample resources or make a copy of them to your own group to make any necessary changes.
 - ▶ You must define the transaction CWWU and CWXN to RACF to ensure that CMCI users are authorized to access the transactions.



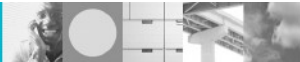


Demo



Additional Resources

- CICS InfoCenter:
 - ▶ <http://publib.boulder.ibm.com/infocenter/cicsts/v4r2/index.jsp>
- Redbook:
 - ▶ <http://www.redbooks.ibm.com/abstracts/sg247778.html>
- CICS Explorer Forum:
 - ▶ <http://www.ibm.com/developerworks/forums/forum.jspa?forumID=1475&start=0>
- How to find CICS Explorer error messages:
 - ▶ <http://www-01.ibm.com/support/docview.wss?uid=swg21410541>



Any further Questions?

